

(54) SYSTEM AND METHOD FOR OPTIMIZING A PARTS LIST ASSOCIATED WITH AN ELECTRONIC DESIGN

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G06Q 30/06 (2012.01)

G06Q 30/00 (2012.01)

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G06Q 30/02 (2012.01)

G06F 17/24 (2006.01)

G06F 3/0482 (2013.01)

(52) U.S. Cl.

CPC H04L 63/08 (2013.01); G06F 3/0482 (2013.01); G06F 17/24 (2013.01); G06F 17/30368 (2013.01); G06Q 10/0875 (2013.01); G06Q 30/018 (2013.01); G06Q 30/0282 (2013.01); G06Q 30/0633 (2013.01)

(58) Field of Classification Search

None

See application file for complete search history.

(56) References Cited

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(57) ABSTRACT

The present disclosure relates to a computer-implemented method

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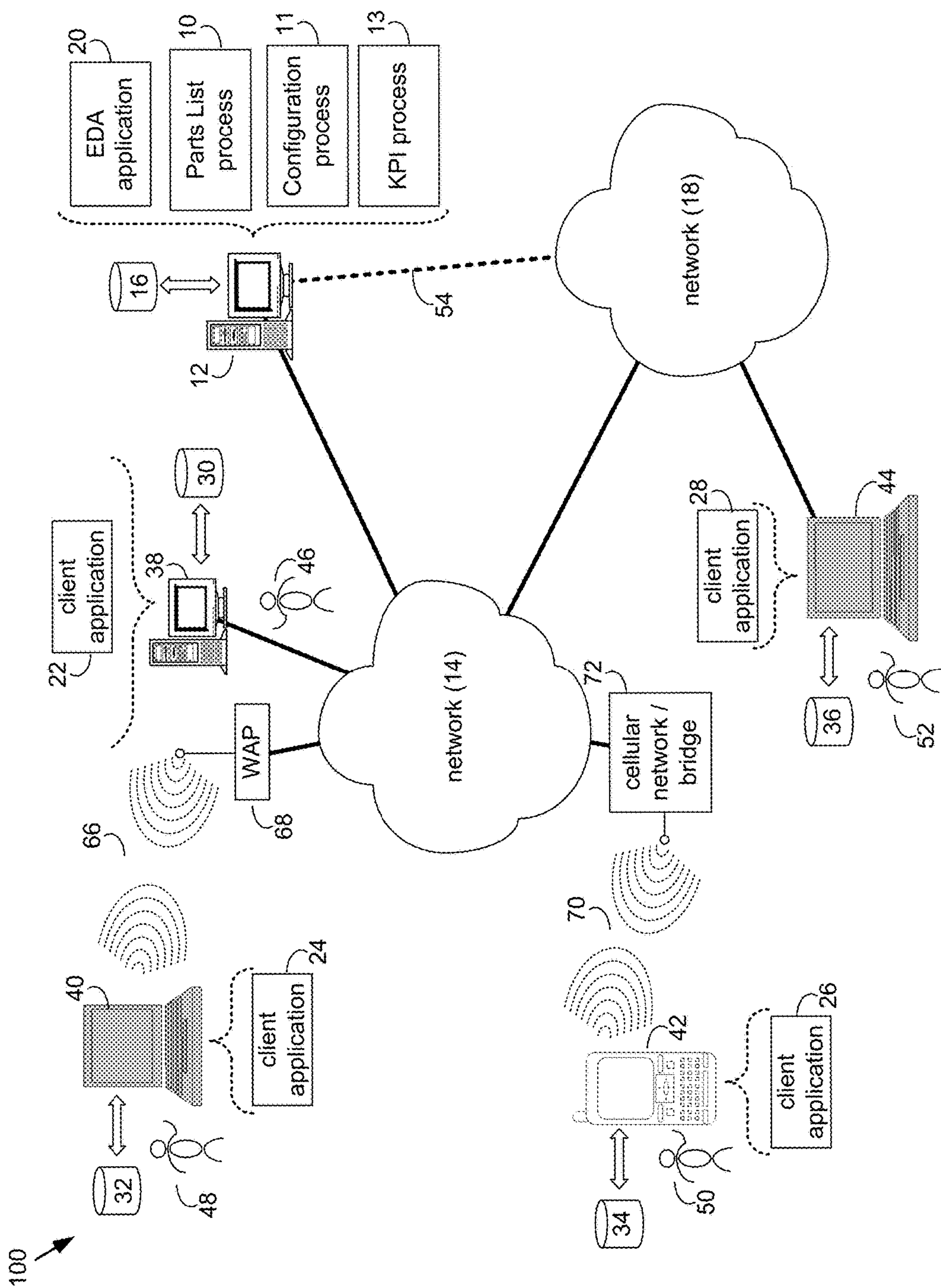


FIG. 1

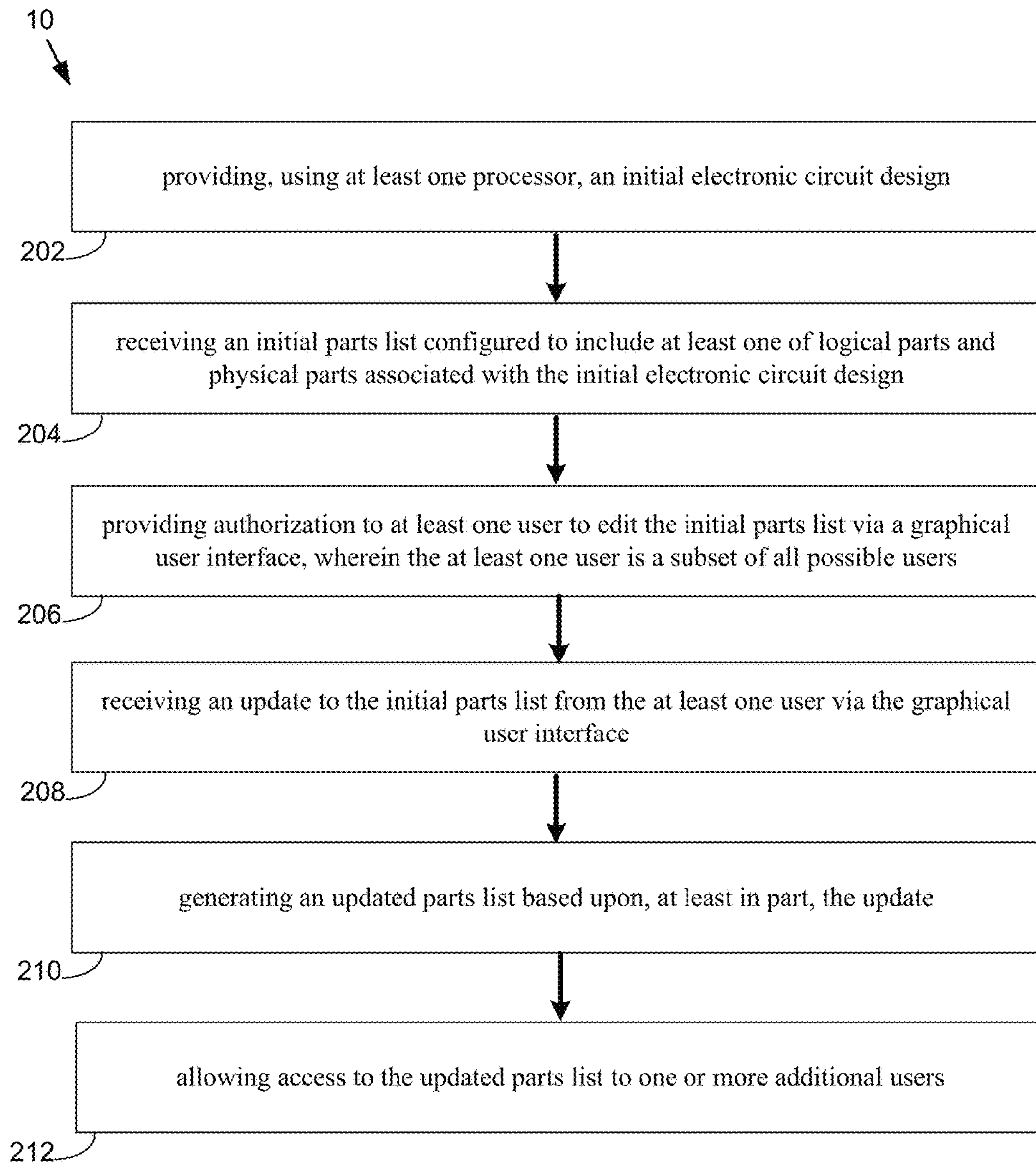


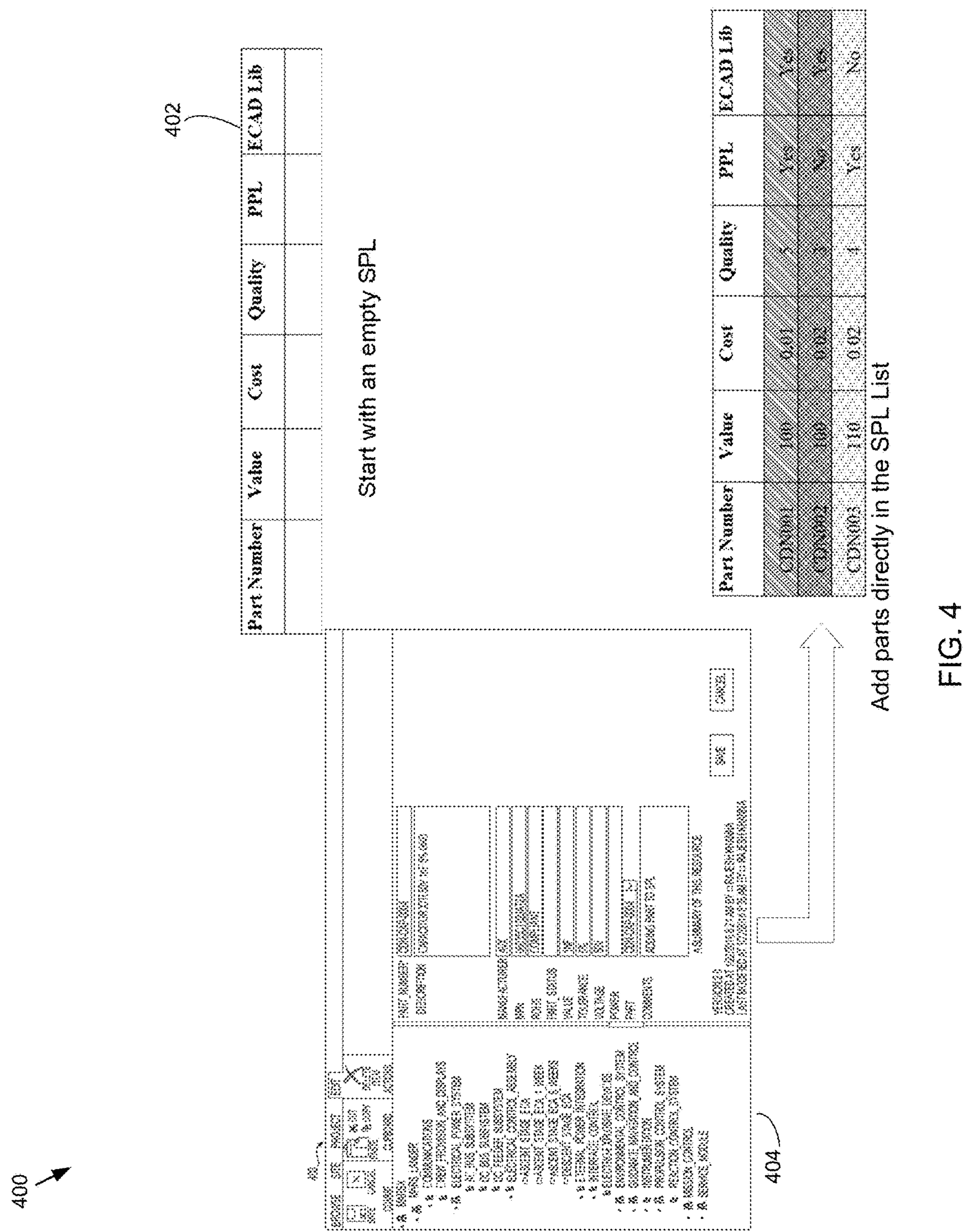
FIG. 2

300



Initial SPL created before the design starts. Can be made of parts in the library, or new parts.

PARTS									
NAME	DESCRIPTION	UNIT	VALUE	UNIT	VALUE	UNIT	VALUE	UNIT	VALUE
RESISTOR	10K	Ω	10000	Ω	10000	Ω	10000	Ω	10000
CAPACITOR	100N	F	0.0001	F	0.0001	F	0.0001	F	0.0001
INDUCTOR	100U	H	0.0001	H	0.0001	H	0.0001	H	0.0001
DIODE	1N4148								
TRANSISTOR	2N2222								
IC	74LS00								
IC	74LS04								
IC	74LS161								
IC	74LS162								
IC	74LS163								
IC	74LS164								
IC	74LS165								
IC	74LS166								
IC	74LS167								
IC	74LS168								
IC	74LS169								



600

⊕ NEW ITEM OR EDIT THIS LIST

ALL ITEMS

✓

PART NUMBER

CON-CAP-0004

CON-CAP-0005

CON-DIO-0001

CON-FPGA-CYCLOM2-0001

CON-IC-0002

CON-IC-0002

CON-IC-0002

CON-IC-0002

CON-IC-1002

CON-IC-2002

DESCRIPTION

CAPACITOR X7R 50V 1uF 5% 0603

CAPACITOR X7R 50V 1.5uF 5% 0603

DIODE 100V D.

ALTERA CYCLOM2-0001

OCTAL D-TYPE OUTPUTS SOP

1.5V ABT OCTAL WITH 3-STATE

1.5V ABT OCTAL D-TYPE LATCH OUTPUTS

OCTAL D-TYPE FUF-FUF WITH 3-STATE OUTPUTS OF 000, 010

00.5V ABT OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS

MANUFACTURER

AUX

AUX

TI

MPN

0803C102J12A

0803C102J12A

SN74LVTH244ZDNR

PART STATUS

COMPLIANT

COMPLIANT

NT

NT

NT

NT

NT

COMPLIANT

COMPLIANT

VALUE

1uF

1.5uF

TOLERANCE

5%

5%

VOLTAGE

50V

50V

100V

1.5V

3.6V

3.6V

IMPORT SPL

THE SELECTED CSV FILE BE IMPORTED INTO THE EXISTING SPL. SELECT THE DESIRED BEHAVIOR IN CASE THE PART ALREADY EXIST.

CSV FILE: E:\ECON_DATABASE\DEMO.D BROWSE...

EXISTING PARTS: ☒ RETAIN ☐ REPLACE ☐ SELECT MANUALLY

IMPORT CANCEL

FIG. 6

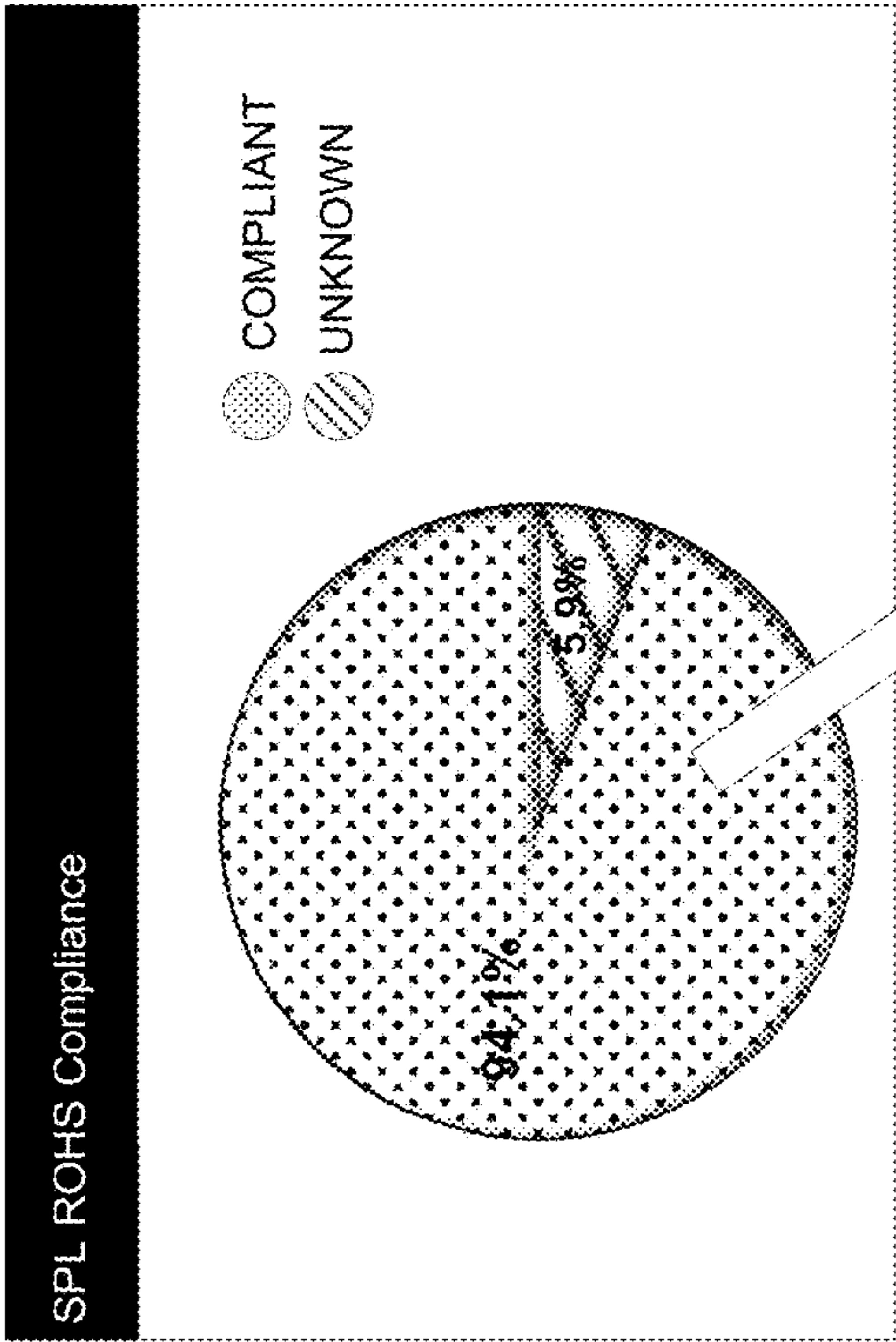
1000



⊕ new item or edit this list
All items ...

✓	PART NUMBER	DESCRIPTION	MANUFACTURER	ROHS	COST	MPN
..	CON-CAP-0004	Capacitor X7R 50V 1nF 5% 0603	AUX	COMPLIANT	\$1.20	0603SC021AT2A
..	CON-CAP-0005	Capacitor X7R 50V 1.5nF 5% 0603	AUX	COMPLIANT	\$0.65	0603SC052AT2A
..	CON-DIO-0001	Diode 300V 0.2A SOT23 SMD	FAIRCHILD	NON-COMPLIANT	\$1.50	8AS16
..	CON-FPGA-CYCLONE2-001	ALTERA CYCLONE 2 FPGA	Altera	COMPLIANT	\$4.50	EP20K10F256C6
..	CON-IC-0002	Octal D-Type Flip-Flop with 3-State Outputs SOP20, 0.5W	FAIRCHILD	COMPLIANT	\$2.00	74VCS7463
..	CON-IC-0003	3.3V ABT OCTAL TRANSMITTER WITH 3-STATE OUTPUTS	TI	COMPLIANT	\$1.75	SN7446VTH2455A20NR
..	CON-IC-0004	3.3V ABT OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS	TI	COMPLIANT	\$1.25	SN74LVTH8738W04
..	CON-IC-1002	Octal D-Type Flip-Flop with 3-State Outputs QPN20, 0.5W	FAIRCHILD	COMPLIANT	\$1.55	74VCS7480X
..	CON-IC-5002	3.3V ABT OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	TI	COMPLIANT	\$1.33	SN74LVTH244A20NR
..	CON-IC-5019	3.3V ABT QUADRIUPLE BUS BUFFERS WITH 3-STATE OUTPUTS	TI	COMPLIANT	\$1.25	SN74LVTH0258W08
..	CON-IC-5002	3.3V ABT OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUT	TI	COMPLIANT	\$1.75	SN74LVTH248RGYR
..	CON-MEM					

1700



Sub-view Display 1702

✓ PART_NUMBER	DESCRIPTION	MANUFACTURER	MPN	ROHS	Part_Status
CON-IC-0013	3A (0.8V-6V) Simple Switcher Power Module with 42V Maximum Input Voltage	TI	LM214203TZ-ADJ/NOPB	UNKNOWN	Active
GENERIC_BP_CONNECTOR	Generic Backplane Connector	GENERIC_BP_CONNECTOR	xxxx	UNKNOWN	Active
RESA0_PAM_EX0V0VN	...	...	...	UNKNOWN	Active

FIG. 17

